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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/763,356	01/23/2004	Won-Jun Lee	9898-314	7097
20575	7590 09/22/2005		EXAMINER	
	OHNSON & MCCOL	PHAM, THANHHA S		
210 SW MORRISON STREET, SUITE 400		E 400	ART UNIT	PAPER NUMBER
FORTLAND,	OR 3/204		2813	
PORTLAND,				PAPER NUMBER

DATE MAILED: 09/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		<i>K</i>	K
	Application No.	Applicant(s)	
Office Action Common to	10/763,356	LEE ET AL.	
Office Action Summary	Examiner	Art Unit	
	Thanhha Pham	2813	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	e correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be I will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDO	ON. Itimely filed om the mailing date of this communication. NED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 14.	June 2005.		
, —	is action is non-final.		
3) Since this application is in condition for allows closed in accordance with the practice under	·		
Disposition of Claims			
4) Claim(s) 1-41 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-41 are subject to restriction and/or	awn from consideration.		
Application Papers		•	
9) The specification is objected to by the Examin			
10) The drawing(s) filed on is/are: a) ac			
Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct			
11) The oath or declaration is objected to by the E	-		
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority document copies of the priority document copies of the priority document copies of the certified copies of the priority document copies of the certified copies of the priority document copies of the certified copies of the priority document copies of the certified copies of the priority document copies of the certified copies of the priority document copies of the certified copies of the priority document copies of the certified copies of the priority document copies of the certified copies of the priority document copies of the certified copies of the priority document copies of the certified copies of the priority document copies of the pri	nts have been received. nts have been received in Applic onty documents have been rece au (PCT Rule 17.2(a)).	ation No vived in this National Stage	
* See the attached detailed Office action for a lis	i of the certified copies not rece	iveu.	
Attachment(s)	_		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	4) Interview Summ Paper No(s)/Mai 5) Notice of Inform 6) Other:		

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DETAILED ACTION

Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C.

121:

- Claims 1-10, drawn to an etching method, classified in class 216, subclass
 58+.
- II. Claims 11-41, drawn to an etching method comprising planarizing the resulting structure including the conductive layer until the top surface of the first layer is exposed to form a capacitor lower electrode having a top end portion, classified in class 438, subclass 697+.

The inventions are distinct, each from the other because of the following reasons: Inventions I and II are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the combination group II does not require providing a wafer having a dielectric layer and an electrode partially protruding a top surface of the dielectric. The subcombination has separate utility such as forming an electrode of a device that is not a capacitor.

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Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

- 2. The Invention Group I of this application contains claims directed to the following patentably distinct species of the claimed invention. Each species is drawn to an etching method. One item from each of the following lettered groups IA and IB must be selected:
 - IA. Reducing the protruding portion comprises:
 - IA-1. recessing a top surface of the electrode below the top surface of the dielectric layer.
 - IA-2. leaving the top surface of the electrode substantially level with the top surface of the dielectric layer
 - IA-3. wherein the top surface of the lower electrode is slightly above the top surface of the dielectric layer such that any bubbles included in the chemical solution can be prevented from adhering to the electrode
 - IB. Reducing the protruding portion comprises:
 - IB-1. dry etching
 - IB-2. wet etching

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Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, 1 is generic.

- 3. The Invention Group II of this application contains claims directed to the following patentably distinct species of the claimed invention. Each species is drawn to an etching method. One item from each of the following lettered groups IIA, IIB and IC must be selected:
 - IIA. Reducing the top end portion comprises:
 - IIA-1. recessing a top surface of the electrode below the top surface of the first dielectric layer.
 - IIA-2. leaving the top surface of the electrode substantially level with the top surface of the first dielectric layer
 - IIA-3. leaving the top surface of the lower electrode is slightly above the top surface of the first dielectric layer such that any bubbles included in the chemical solution can be prevented from adhering to the electrode
 - IIB. Reducing the protruding portion comprises:
 - IIB-1. dry etching
 - IIB-2. wet etching
 - IIC. Wherein planarizing comprises:
 - IIC-1. Chemical mechanical polishing (CMP)
 - IIC-2. an etch back process

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Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, 11 and 30 are generic.

4. Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

5. A telephone call was made to Alan McCollom to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanhha Pham whose telephone number is (571) 272-1696. The examiner can normally be reached on Monday and Thursday 9:00AM - 9:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead can be reached on (571) 272-1702. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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you have questions on access to the Private PAIR system, contact the Electronic

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Business Center (EBC) at 866-217-9197 (toll-free).

Thanhha Pham Patent Examiner

Patent Examining Group 2800